## Index of Claims

Application/Control No.

Applicant(s)/Patent under Reexamination

10/593,110 Examiner

CHRIS H. CHU

CHEN, XIANHAI

2874

|          |                      | <b>4</b> | Rejected |   |          | ed  |          |               |                        | (Through numeral)<br>Cancelled N Non-El- |          |                  |                      |          |          |          |     | lec      | tec           |          | A       |    | Appeal   |            |          |          |              |          |           |          |          |          |   |
|----------|----------------------|----------|----------|---|----------|-----|----------|---------------|------------------------|--|----------|------------------|----------------------|----------|----------|----------|-----|----------|---------------|----------|---------|----|----------|------------|----------|----------|--------------|----------|-----------|----------|----------|----------|---|
|          |                      | =        | Allowed  |   |          |     |          | ÷             | Restricted I Interfere |  |          |                  |                      |          |          | rer      | ıce |          | 0             | Objected |         |    |          |            |          |          |              |          |           |          |          |          |   |
| Cla      | im                   | _        | Date     |   |          |     |          |               |                        | _  |          | Clai             | im I                 |          |          |          | -   | Date     |               |          |         |    | _        | Claim      | _        |          |              | Date     |           |          |          |          |   |
| Cia      | _                    | $\vdash$ | _        |   | Γ'n      | Jak | Ť        | $\overline{}$ |                        | Ⅎ  | Н        | - $           -$ | -                    | $\neg$   |          |          | Ti  | Jak      | ī             | Т        | _       | 1  | H        |            | +        | П        | Т            | Ť        | ale       | Ī        |          | _        | - |
| Final    | Original             |          |          |   |          |     |          |               |                        |  | i        | in a             | Original             |          |          |          |     |          |               |          |         |    | Final    | Original   |          |          |              |          |           |          |          |          |   |
|          | 1                    | V        |          | Н | Н        | Н   | Н        | $\vdash$      | $\vdash$               | ┥.                                       | $\vdash$ | $^{+}$           | 51                   | $\vdash$ | Н        | $\vdash$ | Н   | $\vdash$ | $\vdash$      | $^{+}$   | +       | 1  | Н        | 101        | $^{+}$   | Н        | _            | $\dashv$ | $\exists$ | $\dashv$ | $\dashv$ |          | _ |
|          | 2                    | V        |          |   |          |     |          |               |                        |  |          |                  | 52                   |          |          |          |     |          |               |          |         | ]  |          | 102        |          |          |              |          |           |          |          |          |   |
|          | 3                    | V        |          |   |          |     |          |               |                        | $\Box$                                   |          |                  | 53                   |          |          |          |     |          |               | $\Box$   | $\perp$ | ]  |          | 103        |          |          | $\Box$       | $\Box$   |           |          |          |          |   |
|          | 4                    | ٧        |          |   |          |     | _        |               | ш                      | 4  | $\vdash$ |                  | 54                   |          |          |          |     |          |               | 4        | +       |    | ╙        | 104        |          | $\perp$  | 4            | _        | _         |          | _        |          |   |
| _        | 5                    | ٧        | _        | Н | Н        | Н   | $\vdash$ | ⊢             | $\vdash$               | 4  | $\vdash$ |                  | 55                   | Н        | Н        | Н        | Н   | Н        | Н             | +        | +       | 1  | $\vdash$ | 105        |          | $\vdash$ | +            | 4        | 4         | $\sqcup$ | 4        | _        | _ |
| -        | 7                    | =        | -        | Н | Н        | Н   | $\vdash$ | $\vdash$      | $\vdash$               | 4  | $\vdash$ |                  | 56<br>57             | Н        | Н        | Н        | Н   | Н        | $\vdash$      | +        | +       | 1  | $\vdash$ | 106        |          | $\vdash$ | +            | +        | 4         | $\vdash$ | 4        | $\dashv$ |   |
| -        | 8                    | =        | -        | Н | Н        | Н   | $\vdash$ | $\vdash$      | $\vdash$               | Ⅎ  | $\vdash$ |                  | 58                   | Н        | Н        | Н        | Н   | Н        | $\vdash$      | +        | +       | 1  | $\vdash$ | 107        |          | $\vdash$ | +            | $\dashv$ | $\dashv$  | $\vdash$ | $\dashv$ | -        | _ |
| -        | 9                    | =        | _        | Н | Н        | Н   | $\vdash$ | +             | +                      | $\dashv$                                 | $\vdash$ |                  | 59                   | Н        | Н        | $\vdash$ | Н   | $\vdash$ | $\vdash$      | +        | +       | 1  | $\vdash$ | 109        |          | $\vdash$ | +            | $\dashv$ | $\dashv$  | $\vdash$ | $\dashv$ | -        | _ |
|          | 10                   | =        |          | Н | Н        | Н   | $\vdash$ | t             | $\vdash$               | ┪  | $\vdash$ |                  | 60                   | Н        | Н        | Н        | Н   | Н        | $\vdash$      | $^{+}$   | +       | 1  | Н        | 110        | +        | $\vdash$ | $^{+}$       | $\dashv$ | $\dashv$  | $\vdash$ | $\dashv$ | _        |   |
|          | 11                   | =        |          | П | П        | П   | Г        | Т             | H                      | ┪  | F        |                  | 61                   | П        | П        | П        | П   | П        | П             | 7        | $\top$  | 1  | Г        | 111        | T        | П        | 1            | $\dashv$ |           | П        | $\neg$   |          |   |
|          | 12                   | =        |          |   |          |     | L        | L             |                        | J  |          |                  | 62                   |          |          |          |     |          |               |          | L       | ]  | L        | 112        |          |          |              |          |           |          |          |          |   |
|          | 13                   | =        |          |   |          |     | Γ        | Г             | П                      | l  |          |                  | 63                   |          |          |          |     |          |               | T        | $\Box$  | 1  | 匚        | 113        |          | П        | I            | I        |           |          |          |          | Ξ |
|          | 14                   | =        |          | Ш | Ш        | Ш   | L        | _             | Н                      | 4  | $\perp$  |                  | 64                   | Ш        | Ы        | Ш        | Ш   | Ш        | Ш             | 4        | _       | 1  | ∟        | 114        |          | Ц        | 4            | 4        |           |          | _        |          |   |
| _        | 15                   | =        | _        | Н | Н        | Н   | $\vdash$ | ⊢             | $\vdash$               | 4  | $\vdash$ |                  | 65                   | Н        | Н        | Н        | Н   | Н        | Н             | +        | +       | -  | ⊢        | 115        |          | Н        | 4            | 4        | 4         | $\sqcup$ | 4        | 4        |   |
| -        | 16                   | =        | -        | Н | Н        | Н   | $\vdash$ | $\vdash$      | $\vdash$               | 4  | $\vdash$ |                  | 66<br>67             | Н        | Н        | Н        | Н   | Н        | $\vdash$      | +        | +       | 1  | ⊢        | 116        |          | Н        | +            | +        | -         | $\vdash$ | $\dashv$ | -        | _ |
| -        | 18                   | -        | -        | Н | Н        | Н   | ⊢        | $\vdash$      | $\vdash$               | $\dashv$                                 | $\vdash$ |                  | 68                   | $\vdash$ | Н        | $\vdash$ | Н   | -        | $\vdash$      | +        | +       | 1  | ⊢        | 118        |          | Н        | +            | $\dashv$ | $\dashv$  | $\vdash$ | $\dashv$ | -        | - |
| _        | 19                   | Н        | _        |   | -        | Н   | $\vdash$ | $\vdash$      | $\vdash$               | ┥  | $\vdash$ |                  | 69                   |          | Н        |          | Н   |          | Н             | +        | +       | 1  | ⊢        | 119        |          | $\vdash$ | +            | $\dashv$ | $\dashv$  | $\vdash$ | $\neg$   | _        | _ |
|          | 20                   | Н        |          | Н |          | Н   | Н        | $\vdash$      | $\vdash$               | ┥.                                       | $\vdash$ |                  | 70                   | Н        | Н        | Н        | Н   | $\vdash$ | $\vdash$      | $^{+}$   | +       | 1  | Н        | 120        |          | H        | _            | $\dashv$ | $\exists$ | $\Box$   | $\neg$   | _        | _ |
|          | 21                   | П        | Т        |   |          |     | Г        |               | $\Box$                 | 7  |          |                  | 71                   |          |          |          |     |          |               | $\top$   | $\top$  | 1  | Г        | 121        |          | П        | 1            | $\neg$   |           |          | $\neg$   |          |   |
|          | 22                   |          |          |   |          |     |          |               |                        |  |          |                  | 72                   |          |          |          |     |          |               | T        |         | 1  |          | 122        |          |          |              | $\Box$   |           |          |          |          |   |
|          | 23                   |          |          |   |          |     |          |               | Ш                      | $\Box$                                   |          | $\perp$          | 73                   |          |          |          |     |          |               | $\perp$  |         | ]  |          | 123        |          |          |              |          |           |          |          |          |   |
|          | 24                   | Ш        |          |   |          |     |          |               | ш                      | 4  | $\vdash$ |                  | 74                   |          |          |          |     |          |               | 4        | +       | Į  | ╙        | 124        |          | $\perp$  | 4            | _        | _         | Ш        | _        |          |   |
| _        | 25                   | Ш        | _        |   | Ш        | Ш   | ⊢        |               | Н                      | 4  | $\vdash$ |                  | 75                   | Ш        | ш        |          | Ш   |          | Н             | +        | +       | Į. | ⊢        | 125        |          | Н        | 4            | -        | $\dashv$  | Ш        | _        | _        |   |
| _        | 26<br>27             | Н        | _        |   | Н        | Н   | H        | -             | Н                      | 4  | $\vdash$ |                  | 76<br>77             |          | Н        |          | Н   |          | Н             | +        | +       | ł  | ⊢        | 126<br>127 |          | $\vdash$ | +            | $\dashv$ | $\dashv$  |          | $\dashv$ |          |   |
| _        | 28                   | Н        | -        | Н | Н        | Н   | $\vdash$ | -             | H                      | +  | $\vdash$ |                  | 78                   |          | Н        |          | Н   |          | Н             | +        | +       | 1  | ⊢        | 128        |          | +        | +            | $\dashv$ | $\dashv$  |          | $\dashv$ | -        |   |
|          | 29                   | Н        |          | Н | Н        | Н   | Н        | H             | H                      | ┨  | $\vdash$ |                  | 79                   |          | Н        |          | Н   |          | Н             | +        | +       | 1  | ⊢        | 129        |          | Н        | +            | $\dashv$ | $\dashv$  | $\vdash$ | $\dashv$ | -        |   |
|          | 30                   | П        |          | П | П        | П   | Г        | T             | $\vdash$               | 7  | H        |                  | 80                   | Н        | П        | П        | П   | П        | Н             | T        | $\top$  | 1  | Г        | 130        |          | П        | 7            | $\dashv$ | 1         | $\Box$   | $\dashv$ | _        |   |
|          | 31                   |          |          |   |          |     | L        | L             |                        | J.                                       | Г        |                  | 81                   |          |          |          |     |          |               |          | l       | ]  |          | 131        |          |          | ╛            |          |           |          |          |          |   |
|          | 32                   | П        | Ξ        |   |          |     |          | Г             | П                      | l  |          |                  | 82                   |          |          |          |     |          |               | I        | I       | ]  | 匚        | 132        |          | П        | I            | I        | $\Box$    |          |          |          |   |
|          | 33                   | П        |          |   |          |     | L        |               | П                      | 4  |          |                  | 83                   |          | Ц        |          |     |          |               | 1        | $\perp$ | 1  | L        | 133        |          | Ц        | 1            | _        |           | П        |          |          |   |
| _        | 34                   | Н        | _        | Н | Н        | Н   | $\vdash$ | ⊢             | $\vdash$               | 4  | $\vdash$ |                  | 84                   | Н        | Н        | Н        | Н   | Н        | Н             | +        | +       | 1  | $\vdash$ | 134        |          | Н        | +            | 4        | 4         | Ш        | 4        | _        | _ |
| _        | 35<br>36             | Н        | _        | Н | Н        | Н   | $\vdash$ | $\vdash$      | $\vdash$               | 4  | $\vdash$ |                  | 85<br>86             | $\vdash$ | $\vdash$ | $\vdash$ | Н   | $\vdash$ | $\vdash$      | +        | +       | 1  | ⊢        | 135<br>136 |          | Н        | +            | $\dashv$ | -         | $\vdash$ | $\dashv$ | _        | _ |
| -        | 36                   | $\vdash$ | -        | Н | $\vdash$ | Н   | $\vdash$ | +             | $\vdash$               | +  | $\vdash$ |                  | 87                   | $\vdash$ | $\vdash$ | $\vdash$ | Н   | $\vdash$ | $\vdash$      | +        | +       | 1  | $\vdash$ | 136        |          | +        | +            | +        | $\dashv$  | $\vdash$ | $\dashv$ | -        | _ |
|          | 38                   | Н        |          | - |          | Н   | $\vdash$ |               | $\vdash$               | $\exists$                                | +        |                  | 88                   |          | Н        | Н        |     | -        |               | +        | +       | 1  | -        | 137        |          | Н        | +            | $\dashv$ | $\dashv$  |          |          |          | - |
|          | 39                   | Н        |          | Н | Н        | Н   |          |               | +                      | -1                                       |          |                  | 89                   | Н        | Н        | Н        | ۲   | Н        |               | +        | +       |    | -        | 139        |          | Н        | +            | 1        | ┪         | Н        | $\neg$   | $\dashv$ | - |
| П        | 40                   | Н        | _        | Н | Н        | Н   | Н        | T             | $\vdash$               | -1                                       |          |                  | 90                   | Н        | Н        | Н        |     | Н        |               | $^{+}$   | +       | 1  | Н        | 140        |          | H        | $^{\dagger}$ | +        |           |          |          | 7        | _ |
|          | 41                   | П        |          | П | П        | П   | Г        |               | $\sqcap$               | 7  |          | $\neg$           | 91                   |          | П        |          |     |          | $\Box$        | T        | $\top$  |    | Г        | 141        | Г        | П        | T            | $\dashv$ | 7         | $\Box$   |          | $\neg$   | T |
|          | 42                   |          |          |   |          |     |          |               |                        |  |          |                  | 92                   |          |          |          |     |          |               | $\Box$   |         |    |          | 142        | Т        |          | $\Box$       |          |           |          |          |          |   |
|          | 43                   | П        |          |   |          | П   | Е        | Г             | П                      | 1  |          |                  | 93                   |          |          |          |     |          | П             | I        | I       |    |          | 143        |          | П        | I            | I        |           | П        |          | П        | Ξ |
|          | 44                   | П        |          |   |          | Ш   | L        |               | ш                      | _  |          |                  | 94                   |          |          |          |     |          | _             | 1        | 1       |    |          | 144        |          | П        | 1            | 4        | 4         |          |          | _        |   |
| _        | 45                   | $\sqcup$ | _        | Ш | Ш        | ш   | L        | -             | $\vdash$               | -1                                       | -        |                  | 95                   | Ш        | Ш        | Ш        |     | Ш        | $\rightarrow$ | +        | +       |    | -        | 145        |          | $\sqcup$ | +            | 4        | 4         | _        | _        | 4        | _ |
| _        | 46                   | Н        | _        | Н | Н        | Н   | H        | $\vdash$      | $\vdash$               | 4  | -        |                  | 96                   | Н        | Н        | Н        | Н   | Н        | $\vdash$      | +        | +       | 1  | Н        | 146        | ⊬        | Н        | +            | $\dashv$ | 4         | $\vdash$ | _        | $\dashv$ | _ |
| $\dashv$ | 47<br>4 <del>0</del> | $\vdash$ | -        | Н | Н        | Н   | Н        | $\vdash$      | $\vdash$               | +  | $\vdash$ |                  | 97<br>9 <del>0</del> | Н        | Н        | Н        | Н   | Н        | $\vdash$      | +        | +       | 1  | $\vdash$ | 147        | $\vdash$ | $\vdash$ | +            | +        | -         | $\vdash$ | $\dashv$ | $\dashv$ | _ |
| -        | 49                   | $\vdash$ | -        | Н | Н        | Н   | $\vdash$ | +             | $\vdash$               | Ⅎ  | $\vdash$ |                  | 99                   | Н        | Н        | Н        | Н   | Н        | $\dashv$      | +        | +       | 1  | $\vdash$ | 149        |          | $\vdash$ | +            | $\dashv$ | $\dashv$  | $\dashv$ | -        | $\dashv$ | _ |
| _        | 50                   | $\vdash$ | -        | Н | Н        | Н   | Н        | +             | +                      | $\dashv$                                 | $\vdash$ |                  | 100                  | $\vdash$ | Н        | $\vdash$ | -   | $\vdash$ | $\dashv$      | +        | +       | 1  | $\vdash$ | 150        |          | +        | +            | $\dashv$ | -         | $\dashv$ | -        | $\dashv$ | - |